### **CENTER FOR DRUG EVALUATION AND RESEARCH**

**APPROVAL PACKAGE FOR:** 

**APPLICATION NUMBER** 

21-256

**Microbiology Review(s)** 

## **Product Quality Microbiology Review**Review for HFD 180

8-April-2004

NDA:

Drug Product Name: \_\_\_\_\_ (formerly

Non-proprietary Human Secretin

Drug Product Classification:

•

Subject of this Review
Submission Date: April 7, 2004

Receipt Date: April 7, 2004
Consult Date: April 7, 2004

Date Assigned for Review: April 7, 2004

Submission History (for amendments only)

Date(s) of Previous Submission(s): October 10, 2003

(21-256/N-000-AZ)

March 26, 2004 (21-256/N-000-BI)

21-256/N-000-BI

4

Date(s) of Previous Micro Review(s): March 11, 2004

(21-256/N-000-AZ)

April 2, 2004

(21-256/N-000-BI)

Applicant/Sponsor

**Review Number:** 

Name: ChiRhoClin, Inc.

Address: 4000 Blackburn Lane,

Suite 270

Burtonsville, MD 20866-6129

**Representative:** Edward D. Purich **Telephone:** 301-476-8388

Name of Reviewer:

Stephen E. Langille, Ph.D.

**Conclusion:** 

Recommended for approval. The comment on p. 9 of this review should be provided to the Sponsor.

APPEARS THIS WAY ON ORIGINAL

## **Product Quality Microbiology Data Sheet**

A. 1. TYPE OF SUPPLEMENT:

**NDA** 

2. SUPPLEMENTS PROVIDE FOR:

Not applicable

3. MANUFACTURING SITE:

Bell-More Labs, Inc.

4030 Gill Ave.

Hampstead, MD 21074-0179

4. DOSAGE FORM, ROUTE OF ADMINISTRATION AND STRENGTH/POTENCY:

• Intravenous Injection

Lyophilized powder

• 16 ug

5. METHOD(S) OF STERILIZATION:

6. PHARMACOLOGICAL CATEGORY: Diagnosis of pancreatic

disease

B. SUPPORTING/RELATED DOCUMENTS:

None

C. REMARKS: NDA 21-256 was originally submitted on 3/16/00 and was judged to be non-fileable. The NDA was resubmitted on 6/14/01. The Microbiology Review was done by Dr. Neal Sweeney and the NDA was recommended for approval from the standpoint of product quality microbiology. NDA 21-256/N-000 AZ was submitted on Oct. 10, 2003 in response to the CMC action letter and to report a change in the manufacturing site (Bell-More Labs, Inc.) for The first microbiology review for production at Bell-More Labs was completed on March 11, 2004. A response to the deficiencies listed in the March 11 review was provided to the Agency on March 26, 2004. The second microbiology review was completed on April 2, 2004. Dr. Edward D. Purich of ChiRhoClin and Bell-More Labs were contacted on April 8, 2004 regarding CMC issues at the Bell-More Labs manufacturing facility.

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### **Executive Summary**

T	Recommendations
1.	I C C O I I I I I C I I C C C C C C C C

- A. Recommendation on Approvability NDA 21-256/N-000-BI is recommended for approval. The comment on p. 9 of this review should be provided to the Sponsor.
- B. Recommendations on Phase 4 Commitments and/or Agreements, if Approvable Not applicable
- II. Summary of Microbiology Assessments
  - A. Brief Description of the Manufacturing Processes that relate to Product Quality Microbiology 
    will be at Bell-More Labs, Inc. in Hampstead, Maryland. The manufacturing site for the previous application was
  - B. Brief Description of Microbiology Deficiencies No deficiencies were identified based upon the information provided.
  - C. Assessment of Risk Due to Microbiology Deficiencies Not applicable

#### III. Administrative



- A. Reviewer's Signature
- B. Endorsement Block
  Stephen E. Langille, Ph.D.
  Peter Cooney, Ph.D.
- C. CC Block In DFS

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/s/

Stephen Langille 4/8/04 02:09:59 PM MICROBIOLOGIST

Peter Cooney 4/8/04 02:32:26 PM MICROBIOLOGIST

# **Product Quality Microbiology Review Review for HFD 180**

26-March-2004

NDA:

21-256/N-000-BI

**Drug Product Name:** 

(formerly

Non-proprietary

Human Secretin

**Drug Product Classification:** 

**Review Number:** 

3

Subject of this Review

**Submission Date:** 

March 17, 2004

**Receipt Date:** 

March 17, 2004

Consult Date:

March 22, 2004

Date Assigned for Review:

March 22, 2004

Submission History (for amendments only)

Date(s) of Previous Submission(s):

October 10, 2003

Date(s) of Previous Micro Review(s):

March 11, 2004

Applicant/Sponsor

Name:

ChiRhoClin, Inc.

Address: 4000 Blackburn Lane,

Suite 270

Burtonsville, MD 20866-6129

Representative:

Edward D. Purich

Telephone:

301-476-8388

Name of Reviewer:

Stephen E. Langille, Ph.D.

Conclusion:

Approvable pending revision

## **Product Quality Microbiology Data Sheet**

A. 1. TYPE OF SUPPLEMENT:

**NDA** 

2. SUPPLEMENTS PROVIDE FOR:

Not applicable

3. MANUFACTURING SITE:

Bell-More Labs, Inc.

4030 Gill Ave.

Hampstead, MD 21074-0179

4. DOSAGE FORM, ROUTE OF ADMINISTRATION AND STRENGTH/POTENCY:

• Intravenous Injection

Lyophilized powder

16 ug

5. METHOD(S) OF STERILIZATION:

6. PHARMACOLOGICAL CATEGORY:

Diagnosis of pancreatic

disease

B. SUPPORTING/RELATED DOCUMENTS:

None

C. REMARKS: NDA 21-256 was originally submitted on 3/16/00 and was judged to be non-fileable. The NDA was resubmitted on 6/14/01. The Microbiology Review was done by Dr. Neal Sweeney and the NDA was recommended for approval from the standpoint of product quality microbiology. NDA 21-256/N-000 AZ was submitted on Oct. 10, 2003 in response to the CMC action letter and to report a change in the manufacturing site (Bell-More Labs, Inc.) for The Applicant has sought approval for the production of a related product, SecreFlo, (21-136,

The

first microbiology review was completed on March 11, 2004.

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I.

II.

III.

C.

CC Block In DFS

## **Executive Summary**

Duin	MACA Y		
Recommendations			
<b>A.</b>	Recommendation on Approvability - NDA 21-256/N-000-BI is approvable pending the resolution of microbiological deficiencies.		
В.	Recommendations on Phase 4 Commitments and/or Agreements, if Approvable - Not applicable		
Sumin	nary of Microbiology Assessments		
A.	Brief Description of the Manufacturing Processes that relate to Product Quality Microbiology -  will be at Bell-More Labs, Inc. in Hampstead, Maryland. The manufacturing site for the previous application was		
В.	Brief Description of Microbiology Deficiencies - The Applicant failed to provide adequate information regarding:  • • • • • • • • • • • • • • • • • •		
C.	Assessment of Risk Due to Microbiology Deficiencies - Failure to address the microbiology deficiencies could result in the contamination of the drug product		
Adm	inistrative /\$/		
A.	Reviewer's Signature		
В.	Endorsement Block Stephen E. Langille, Ph.D. Peter Cooney, Ph.D.		

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/s/

Stephen Langille 4/2/04 12:32:57 PM MICROBIOLOGIST

Peter Cooney 4/2/04 04:18:14 PM MICROBIOLOGIST

## **Product Quality Microbiology Review**Review for HFD 180

1-March-2004

NDA:

21-256/N-000AZ

**Drug Product Name:** 

Non-proprietary

**Human Secretin** 

**Drug Product Classification:** 

**Review Number:** 

2

Subject of this Review

**Submission Date:** 

October 10, 2003

**Receipt Date:** 

October 11, 2003

**Consult Date:** 

November 13, 2003

**Date Assigned for Review:** 

January 12, 2004

Submission History (for amendments only)

Date(s) of Previous Submission(s):

June 14, 2001

Date(s) of Previous Micro Review(s):

November 6, 2001

Applicant/Sponsor

Name:

ChiRhoClin, Inc.

Address:

4000 Blackburn Lane,

Suite 270

Burtonsville, MD 20866-6129

Representative:

Edward D. Purch

**Telephone:** 301-476-8388

Name of Reviewer:

Stephen E. Langille, Ph.D.

Conclusion:

Approvable pending revision

## **Product Quality Microbiology Data Sheet**

TYPE OF SUPPLEMENT: A. 1.

**NDA** 

SUPPLEMENTS PROVIDE FOR: 2.

Not applicable

**MANUFACTURING SITE:** 3.

Bell-More Labs, Inc.

4030 Gill Ave.

Hampstead, MD 21074-0179

DOSAGE FORM, ROUTE OF ADMINISTRATION AND 4. STRENGTH/POTENCY:

Intravenous Injection

Lyophilized powder

16 ug

METHOD(S) OF STERILIZATION: 5.

PHARMACOLOGICAL CATEGORY: Diagnosis of pancreatic 6.

disease

SUPPORTING/RELATED DOCUMENTS: В.

None

REMARKS: NDA 21-256 was originally submitted on 3/16/00 and was C. determined to be non-fileable. The NDA was resubmitted on 6/14/01. The Microbiology Review was done by Dr. Neal Sweeney and the NDA was recommended for approval from the standpoint of product quality microbiology. NDA 21-256/N-000 AZ was submitted on Oct. 10, 2003 in response to the CMC action letter and to report a change in the manufacturing site (Bell-More Labs, The Applicant has sought approval for the production of a related product, SecreFlo, (21-136)

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#### **Executive Summary**

#### I. Recommendations

- A. Recommendation on Approvability NDA 21-256/N-000 AZ is approvable pending the revision of microbiological deficiencies.
- B. Recommendations on Phase 4 Commitments and/or Agreements, if Approvable Not applicable
- II. Summary of Microbiology Assessments
  - A. Brief Description of the Manufacturing Processes that relate to Product Quality Microbiology will be at Bell-More Labs, Inc. in Hampstead, Maryland. The manufacturing site for the previous application was
  - B. Brief Description of Microbiology Deficiencies The Applicant failed to provide:

C. Assessment of Risk Due to Microbiology Deficiencies Failure to address the microbiology deficiencies will result in a
high risk of drug product contamination

#### III. Administrative

15/

- A. Reviewer's Signature
- B. Endorsement Block
  Stephen E. Langille, Ph.D.
  Peter Cooney, Ph.D.
- C. CC Block In DFS

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/s/

Stephen Langille 3/11/04 08:10:30 AM MICROBIOLOGIST

Peter Cooney 3/12/04 10:15:27 AM MICROBIOLOGIST

#### **REVIEW FOR HFD-180**

## OFFICE OF NEW DRUG CHEMISTRY MICROBIOLOGY STAFF HFD-805 Microbiologist's Review #1 of NDA 21-256

#### October 19, 2001

A.	1.	APPLICATION NUMBER:	21-256	
		APPLICANT:	ChiRhoClin, Inc. 15500 Gallaudet Avenue Silver Spring, MD 20905-4176 (Tel) 301-384-1554 (Fax) 301-384-1565	
	2.	PRODUCT NAME:	Synthetic Human Secretin	
<ol> <li>DOSAGE FORM AND ROUTE OF ADMINISTRATION: Ster synthetic human secretin (16 μg/vial) in 10 mL — vials. F administration.</li> </ol>				
	4.	4. METHODS OF STERILIZATION:		
	5.	PHARMALOGICAL CATAGORY and/or PRINCIPLE INDICATION Gastrointestinal peptide hormone indicated (proposed) for diagnosis pancreatic exocrine diagnosis of gastrinoma, and facilitation during ERCP.		
	6.	DRUG PRIORITY CLASSIFICATION	N: P	
В.	1.	DATE OF INITIAL SUBMISSION:	6/14/01 (Resubmission)	
	2.	DATE OF CONSULT:	6/20/01	
	3.	ASSIGNED FOR REVIEW:	7/26/01	
	4. RELATED DOCUMENTS:  and DMF DMF submitted Sept. 1999 and amended Feb. 14, 2000 and 8, 2000)		NDA 21-136, NDA 21-209, 1999 and amended Feb. 14, 2000 and May	
E.		REMARKS: NDA 21-256 was origin	nally submitted 3/16/00 and was determined	

to be non-fileable, and a Refuse to File letter was issued 5/11/00. The NDA was

resubmitted 6/14/01.

#### D. CONCLUSIONS:

The submission is recommended for approval for microbiology issues concerning sterility assurance. Specific comments are provided in section "E. REVIEW NOTES".

**/S/** 

Neal Sweeney, Ph.D.

cc: NDA 21-256 HFM-180/Division File HFM-180/A. Shaw/ M. McNeil HFD-805/Consult File/N. Sweeney

Drafted by: N. Sweeney, October 19, 2001 R/D initialed by P. Cooney, October 19, 2001

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/s/

Neal Sweeney 11/6/01 02:32:44 PM MICROBIOLOGIST

Peter Cooney 11/6/01 02:48:46 PM MICROBIOLOGIST APPEARS THIS WAY ON ORIGINAL

### See CMC review dated 3/18/04

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A Statistical Review (stability) was not necessary for this application.

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ON ORIGINAL